

NEWS

Blue Sky Thinking - Green Actions

NEWS

TECHNOLOGY

FUTURE



Friday 20th June saw another exciting milestone in the expansion of Alphasense. Customers, suppliers and guests gathered to mark the official opening of the outstanding, new manufacturing and development facility at Skyline 120, Great Notley, Essex.

Guests were greeted with a celebratory breakfast and then enjoyed a day touring the new factory which included seeing the state-of-the-art equipment and operational processes. Impressed by Alphasense's investment in the automatic test and validation (ATAV) system and multi-channel VOC generator, a visit to the building services control room demonstrated to guests how the Company also maintains its green credentials by tightly controlling the working environment to ensure utmost efficiency and comfort at all times.

Much lively conversation was sparked by the tour with customers noting that Alphasense had not only succeeded in providing an existing service second-to-none but, with the stunning new facility, had anticipated future requirements for many years to come.

After the tour, guests mingled with Alphasense Directors and staff. A caricature artist was on hand to capture the event in a unique way, while one of Alphasense's talented staff members snapped informal shots throughout the afternoon.



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Alphasense
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A champagne, buffet lunch was followed by brief speeches from Arthur Burnley, Sales & Marketing Director and Dr John Saffell, Technical Director who gave a presentation of the Company's current innovations and ideas for the future.

Thanking everyone for attending, Andrea Gotley, CEO said 'We wanted to share this day with the



people who helped make it possible. We have invested heavily in new equipment and staff because this is, undoubtedly, the best way

to ensure our customers continue to receive the quality products they have come to expect from Alphasense.

The increased capacity in our new factory allows us to offer much higher volumes without sacrificing quality or efficiency".

Andrea then introduced her father Paul Gotley, founder and Chairman of Alphasense. Paul, who was awarded an OBE (Order of the British Empire) for services to the Manufacturing Industry, cut the symbolic ribbon officially opening the new building.



As a veteran of the gas detection industry, Paul's continued support and involvement in the business is much admired and his obvious pride at the Company's achievements was reflected in many of the comments from guests:

John B Jones, PPM Technology 'I was very impressed, especially with the testing and development laboratories. First class facilities for a world class company'.

Warren Rees, Crowcon, 'It was great to be part of such a significant milestone in the development of the business and to have the opportunity to chat with Paul and Rose Gotley about the early days. You can all feel proud of what has been achieved and, even more importantly, what will be achieved in the future'

Jonathan Kane, Kane International 'I was delighted to see such significant investment in a British sensor manufacturing facility. I congratulate Alphasense on their world class facility and wish them continued success'

Billy Richardson, GMI 'I thoroughly enjoyed my visit and was really impressed with the focus on automating the process side of things - a real glimpse into the future!'

Giacomo Frigo, Sensitron 'Looking at the new facility and the management "reliable people with great ideas". I look forward to the future with Alphasense'

Duncan Johns, IonScience 'I was very impressed with the facility - well done Alphasense, it seems you are leading the way where others would only hope to follow'

Dr Kim Chandler, Johnson Matthey 'I enjoyed the event very much. Dedicated staff, state of the art automation and process equipment all spell Quality!'

NEW PRODUCTS FOR A NEW ERA

Alphasense
THE SENSOR TECHNOLOGY COMPANY

NDIR Carbon Dioxide Infrared Sensor

Alphasense have launched the new IRC-A1, a "traditional" NDIR sensor with a difference.

Working with Ralph Tatam's photonics group at Cranfield University, we have designed new optics for our NDIR sensor.

Housed in a standard 20mm x 16.6mm case, the IRC-A1 (*patent pending*) CO₂ sensor has unique moulded-in optics that give it distinct advantages over the competition.



- * **Best signal-to-noise ratio (S/N):** 10x better than the best selling competitor, using the same electronics

- * **The only A-sized NDIR using focused optics,** this sensor covers 0-1000ppm to 0-100% CO₂, with great resolution over the entire range

- * **Single sensor covers:**

 - IAQ (0-5000ppm)

 - Safety (0-5%)

 - Combustion (0-20%)

 - Industrial processes (0-100%)

one NDIR cell for four markets

- * **Option of either** high resolution pyroelectric or low cost thermopile dual detectors gives you the choice when optimising cost-performance requirements

- * **Repeatable optical performance** - linearisation is universal. No need to calibrate linearity for each sensor, so forget customised sensor linearisation

- * **Temperature compensation** is two temperature, one constant adjustment: the simplest on the market.

With the excellent S/N, the IRC-A1 has one final trick. Turn the bulb voltage down from 5V to 2V and the power drops from 150mW (rms) to just 40mW, bulb lifetime increases ten-fold and the S/N is still better than the competition at 5V/ 150mW.

Enjoy the improved battery lifetime.

A peer-review paper is being prepared explaining why, unlike other sensors, this NDIR follows so closely the Beer-Lambert Law.

D2 'Miniature Dual-Gas Sensor'

The mini-sized dual gas D2 (CO+H₂S) is gaining rapid acceptance as the must-be for next-generation gas detectors.



The small size (14.5mm diameter, 8.3mm height) plus industry-standard, 0.1" spacing, in-line pins means greater creative freedom and lower PCB cost when

designing your next family of gas detectors.

Fully validated by both Alphasense and top gas detector companies, this sensor has excellent long-term performance at humidity and temperature extremes, while avoiding cross-sensitivity through our (*patent-pending*) design.

The D2 is an integral component in the latest released gas detectors from major suppliers.

ALPHASENSE IS INNOVATION

We stay ahead to keep you ahead and our partners are key to our innovation:

- Ⓢ **Universities worldwide consult, license and provide research & development facilities**

- Ⓢ **Commercial organisations combine resources and help improve sensor performance**

- Ⓢ **USA and UK networks such as CoGDEN, SIKTN, ASTM, GASG, EPSRC ensure Alphasense are always up to date with legislation & technology and ahead of the game when it counts**

We use our knowledge and networks to help you solve your specific problems.

Everyone benefits from Alphasense innovation!

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